



Name: \_\_\_\_\_  
 Mr. Tiénou-Gustafson & Mr. Bielmeier  
 Geometry, Period \_\_\_\_\_  
 Due Date: 2/27/15

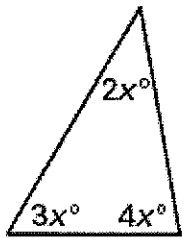
HW 90\_Classifying Triangles

Form A

**Geometry  
Homework**

**Failure to show all work and write in complete sentences will result in LaSalle!**

1) Solve for x.

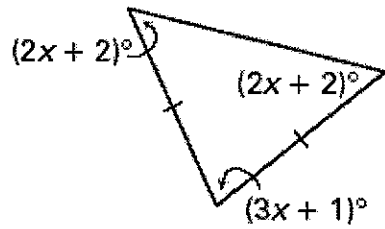


$$2x + 3x + 4x = 180^\circ$$

$$9x = 180^\circ$$

Classified by sides \_\_\_\_\_  
 Classified by angles \_\_\_\_\_

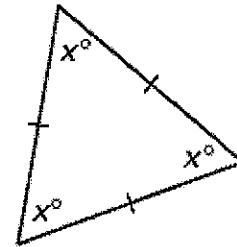
2) Solve for x.



$$(2x + 2)^\circ + (2x + 2)^\circ + (3x + 1)^\circ = 180^\circ$$

Classified by sides \_\_\_\_\_  
 Classified by angles \_\_\_\_\_

3) Solve for x.



Classified by sides \_\_\_\_\_  
 Classified by angles \_\_\_\_\_

4) Classify the triangle based on its side and angle measures and explain your reasoning in 1-2 sentences.



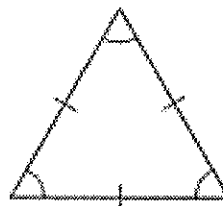
5) Classify the triangle based on its side and angle measures and explain your reasoning in 1-2 sentences.



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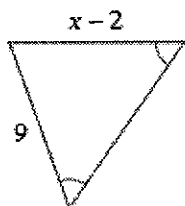


6) Classify the triangle based on its side and angle measures and explain your reasoning in 1-2 sentences.

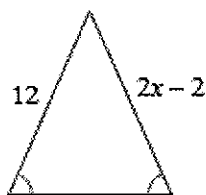


**Define YOUR Pride.**

7) Find the missing side length. Label any missing angles or sides with the appropriate markings.

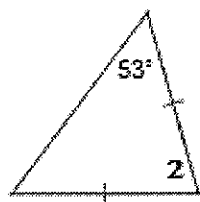


8) Find the missing side length. Label any missing angles or sides with the appropriate markings.



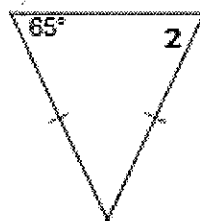
9) Find the missing side length. Label any missing angles or sides with the appropriate markings.

$$m\angle 2 = 8x - 6$$



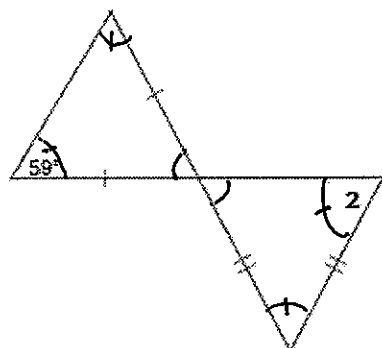
10) Find the missing angle measure. Label any missing angles or sides with the appropriate markings.

$$m\angle 2 = 4x + 21$$



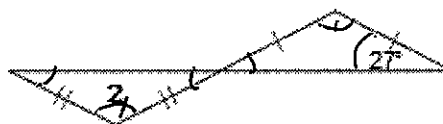
11) Find the missing angle measure. Label any missing angles or sides with the appropriate markings.

$$m\angle 2 = 4x + 18$$



12) Find the missing angle measure. Label any missing angles or sides with the appropriate markings.

$$m\angle 2 = 12x + 6$$



13) Find the polynomial with roots -5 and -2.

$$x = \{-5, -2\}$$

$$(x + 5)(x + 2) = 0$$

14) What is the product of the solutions to  $3x^2 + 6x - 18 = 0$ ? Factor out 3 first!

Define YOUR Pride.